CS 110 Introduction to Computer Science
Homework II
Due: At the start of class Friday September 11, 2009

1. Write declaration statements for each of the following data items:
   A. The number of students in a class
      \[
      \text{int numStus;}
      \]
   B. The average rainfall in a year.
      \[
      \text{double avcRainfall;}
      \]
   C. The tax rate percentage in a given state for food.
      \[
      \text{double tax;}
      \]
   D. An assigned letter grade (without + or -).
      \[
      \text{char letterGrade;}
      \]
   E. The answer to a true false exam question.
      \[
      \text{boolean answer;}
      \]

2. Write the JAVA statements which will
   A. Set the value of the variable interest to the value of the variable balance multiplied by .05.
      \[
      \text{interest = balance * 0.05;}
      \]
   B. Appropriately declare the variable interest.
      \[
      \text{double interest;}
      \]
   C. Initialize the variable count to 0;
      \[
      \text{count = 0;}
      \]

3. Convert each of the following mathematical formulas to JAVA expressions.
   A. 3x
B. \( 3x + y \)

\[
\frac{3 \times x + y}{7}
\]

C. \[
\frac{x + y}{7}
\]

D. \[
\frac{3x + y}{z + 2}
\]